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PROJECT

LOCATION

VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

т.і.р. No. sheet no. В–4968 UC–1

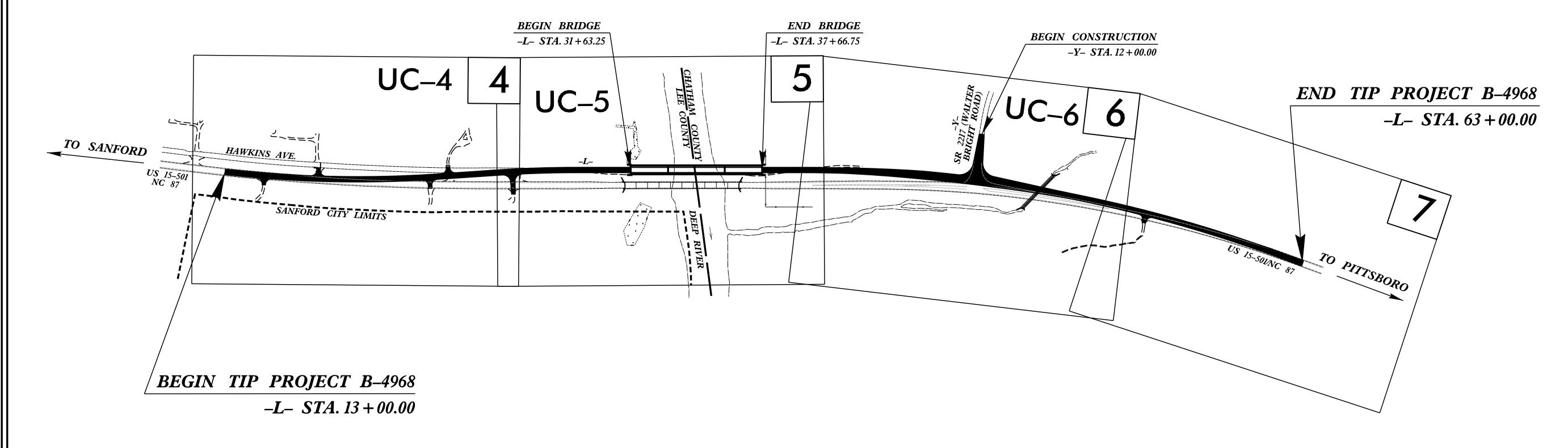
UTILITY CONSTRUCTION PLANS LEE & CHATHAM COUNTIES

LOCATION: BRIDGE NO. 10 OVER DEEP RIVER
ON US 15-501/NC 87

TYPE OF WORK: UTILITY CONSTRUCTION

NAD 83

NA 2011



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

FAX (919) 250-4151

GRAPHIC SCALES 50 25 0 50 100 PLANS 50 25 0 50 100 PROFILE (HORIZONTAL) 5 2.5 0 5 10 PROFILE (VERTICAL)

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UC-7
DESCRIPTION:

TITLE SHEET
UTILITY SYMBOLOGY
NOTES
UTILITY SYMBOLOGY
NOTES
UTILITY CONSTRUCTION SHEETS
PROFILE SHEET

WATER AND SEWER OWNERS ON PROJECT

A) WATER – CITY OF SANFORD

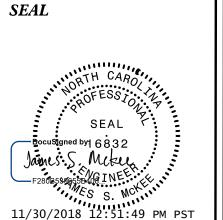
B) WATER – CHATHAM COUNTY

C) SANITARY SEWER - TOWN OF PITTSBORO (PROPOSED - TO BE INSTALLED BY OTHERS)

PREPARED IN THE OFFICE OF: DAVIS • MARTIN • POWELL ENGINEERS & SURVEYORS

6415 OLD PLANK RD, HIGH POINT, NC 27265 PHONE: (336)886-4821 FAX: (336)886-4458 WWW.DMP-INC.COM LICENSE: F-0245

Steve McKee, P.E.	CONSULTANT CONTACT #1
Andy Larrick, P.E.	CONSULTANT CONTACT #2
Randy McNeill, P.E.	CONSULTANT CONTACT #3





Tanga Sampson

DIVISION OF HIGHWAYS UTILITIES UNIT 1555 MAIL SERVICES CENTER RALEIGH NC 27699–1555 PHONE (919) 707–6690

Tucker Martin, P.E.

Bernie Bumgarner

UTILITIES REGIONAL ENGINEER

Bernie BumgarnerUTILITIES ENGINEERDayton MartinUTILITIES AREA COORDINATOR

UTILITIES COORDINATOR

A/G Gas

A/G Water

A/G Sanitary Sewer

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown) - — — — — — — 11½ Degree Bend -———————— 45 Degree Bend - — — — — — — ***** 90 Degree Bend -—————— Plug -----Gate Valve-———————— Š Butterfly Valve ——————— $\stackrel{\mathrm{BV}}{\bowtie}$ Line Stop - — — — — — — — — — — Line Stop with Bypass————— Fire Hydrant-——————— Relocate Fire Hydrant — — — — — — — Remove Fire Hydrant—————————————————— Relocate Water Meter ————— Remove Water Meter — — — — — — REM. WM Water Pump Station — — — — — — PS(W) RPZ Backflow Preventer - — — — — — PRPZ DCV Backflow Preventer — — — — — PBFP Relocate RPZ Backflow Preventer——— Relocate DCV Backflow Preventer——— PROPOSED SEWER SYMBOLS (Sized as Shown) Force Main Sewer Line _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ ___ (Sized as Shown) (Sized per Note) ——————— •

Sewer Pump Station — — — — — — — PS(SS)

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole —————————	– 6	Thrust Block -——————— []
elephone Pole -————————	- -o-	Air Release Valve-———————
Joint Use Pole -————————	– -6-	Utility Vault — — — — — — —
elephone Pedestal — — — — — — —	— TEL PED	Concrete Pier — — — — — — — — □
Itility Line by Others	PROP O/H POW LINES	Steel Pier ——————— 🗀
renchless Installation ——————	12" TL INSTALL	Plan Note
Encasement by Open Cut ——————	24" ENCAS BY OC	Pay Item Note — — — — NOTE
Encasement - — — — — — — — — — — — — — — — — — —	24" ENCASEMENT	PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole	– ф	*Underground	Power Line-——————
Telephone Pole	- →	*Underground	Telephone Cable ————
Joint Use Pole		*Underground	Telephone Conduit
Utility Pole	- O	*Underground	Fiber Optics Telephone Cable
Utility Pole with Base-—————	- ⊡	*Underground	TV Cable ———————
H-Frame Pole-—————————	- ⊙ ⊙	*Underground	Fiber Optics TV Cable———
Power Transmission Line Tower-———	- 🖂	*Underground	Gas Pipeline – — — — — —
Water Manhole — — — — — — — — —	– W	Aboveground	Gas Pipeline-—————
Power Manhole — — — — — — — — —	– (P)	*Underground	Water Line-——————
Telephone Manhole - — — — — — — —	- ①	Aboveground	Water Line-——————
Sanitary Sewer Manhole — — — — —	- ⊕	*Underground	Gravity Sanitary Sewer Line-
Hand Hole for Cable-——————	— দ <u>্</u> য	Aboveground	Gravity Sanitary Sewer Line-
Power Transformer-————————	-	*Underground	SS Forced Main Line————
Telephone Pedestal — — — — — — —	−	Underground	Unknown Utility Line ———
CATV Pedestal — — — — — — — — —	— C	SUE Test Ho	le — — — — — — — — —
Gas Valve	- ♦	Water Meter	
Gas Meter — — — — — — — — — — — — — — — — — — —	- ♦	Water Valve	
Located Miscellaneous Utility Object — —	- ⊙	Fire Hydran	t-—————
Abandoned According to Utility Records –	- AATUR	Sanitary Se	wer Cleanout——————
End of Information———————	– E.O.I.		

*For Existing Utilities
Utility Line Drawn from Record (Type as Shown)
Designated Utility Line (Type as Shown)

UTILITY CONSTRUCTION

GENERAL NOTES:

- 1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
- 2. THE EXISTING UTILITIES BELONG TO THE CITY OF SANFORD AND CHATHAM COUNTY.
- 3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY. DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY. DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
- 4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED. BUT ARE NOT BINDING UPON THE DEPARTMENT.
- 5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

- 6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
- 8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
- 9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, "SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

PROJECT SPECIFIC NOTES:

- 1. UNLESS OTHERWISE NOTED, FOR PROPOSED WATER MAINS AND SEWER MAINS 4" AND LARGER, PIPE AND FITTINGS SHALL BE DUCTILE IRON, PC 350.
- 2. WATER LINE VALVES SHALL BE RESILIENT -SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509. RATED FOR 200 PSI MINIMUM WORKING PRESSURE.

LIST OF STANDARD DRAWINGS

1515.01 WATER METER 1515.02 FIRE HYDRANT

PROJECT REFERENCE	NU.	SHEET NU.
B-4968		UC-3
DESIGNED BY: DMP		
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CHECKED BY: DMP	1111	POFESSION
APPROVED BY:	Docur	SEAL Signed by 6832
REVISED:	Jame	is C Milan ! ?
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	F280E	018 12:51:49 PM P
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILI	

UTILITY CONSTRUCTION

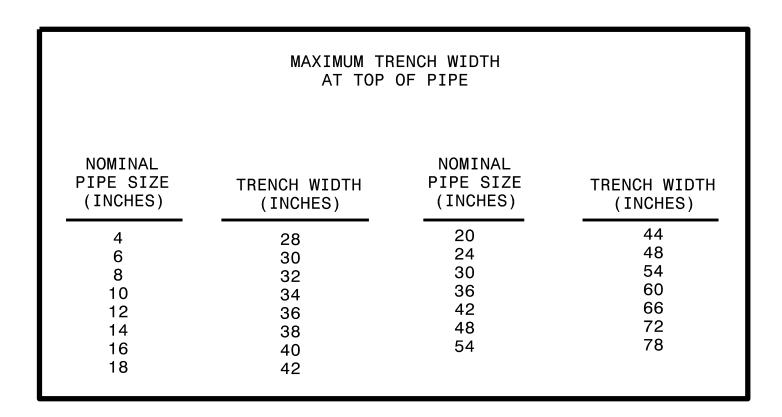
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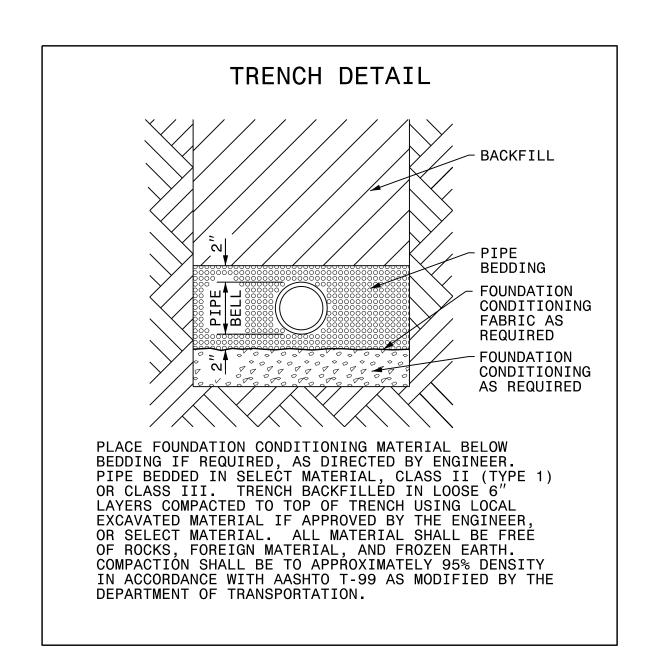
PROJECT TYPICAL DETAILS

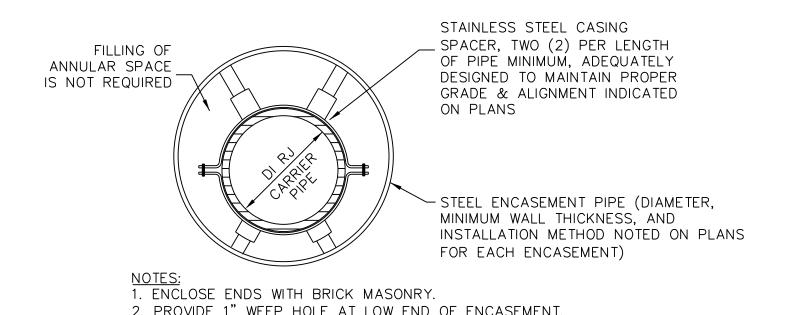
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	F280F	S S. MCKE
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151		2018 12:51:49 PM PST TY CONSTRUCTION PLANS ONLY
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UTILITY CONSTRUCTION

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TYPICAL ENCASEMENT PIPE SECTION

2. PROVIDE 1" WEEP HOLE AT LOW END OF ENCASEMENT.

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